

50c

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/520,470
Source: Per
Date Processed by STIC: 1/26/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:32

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

3 <110> APPLICANT: Tuschl, Thomas
 4 Martinez, Javier
 5 Patkaniowska, Agnieszka
 6 Urlaub, Henning
 7 Luehrmann, Reinhard
 9 <120> TITLE OF INVENTION: RNA-Interference by Single-Stranded RNA Molecules
 11 <130> FILE REFERENCE: 2923-673
 13 <140> CURRENT APPLICATION NUMBER: 10/520,470
 14 <141> CURRENT FILING DATE: 2005-01-07
 16 <150> PRIOR APPLICATION NUMBER: EP 02015532.1
 17 <151> PRIOR FILING DATE: 2002-07-10
 19 <150> PRIOR APPLICATION NUMBER: EP 02018906.4
 20 <151> PRIOR FILING DATE: 2002-08-23
 22 <150> PRIOR APPLICATION NUMBER: PCT/EP03/007516
 23 <151> PRIOR FILING DATE: 2003-07-10
 25 <160> NUMBER OF SEQ ID NOS: 115
 27 <170> SOFTWARE: PatentIn version 3.3
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 15
 31 <212> TYPE: RNA
 32 <213> ORGANISM: Homo sapiens
 35 <220> FEATURE:
 36 <221> NAME/KEY: misc_feature
 37 <223> OTHER INFORMATION: HeLa S100
 38 antisense siRNA (5'-3')
 40 <400> SEQUENCE: 1
 41 ucgaaguauu ccgcg
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 21
 46 <212> TYPE: RNA
 47 <213> ORGANISM: Homo sapiens
 50 <220> FEATURE:
 51 <221> NAME/KEY: misc_feature
 52 <223> OTHER INFORMATION: HeLa S100
 53 antisense siRNA (5'-3')
 55 <400> SEQUENCE: 2
 56 ucgaaguauu ccgcguacgu g
 59 <210> SEQ ID NO: 3
 60 <211> LENGTH: 25
 61 <212> TYPE: RNA
 62 <213> ORGANISM: Homo sapiens
 65 <220> FEATURE:
 66 <221> NAME/KEY: misc_feature

P. 6

15

21

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:32

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

```

67 <223> OTHER INFORMATION: HeLa S100
68     antisense sirNA (5'-3')
70 <400> SEQUENCE: 3
71 ucgaaguauu ccgcguacgu gaugu                25
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 27
76 <212> TYPE: RNA
77 <213> ORGANISM: Homo sapiens
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <223> OTHER INFORMATION: HeLa S100
83     antisense sirNA (5'-3')
85 <400> SEQUENCE: 4
86 ucgaaguauu ccgcguacgu gauguuc            27
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 29
91 <212> TYPE: RNA
92 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <223> OTHER INFORMATION: HeLa S100
98     antisense sirNA (5'-3')
100 <400> SEQUENCE: 5
101 ucgaaguauu ccgcguacgu gauguucac          29
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 15
106 <212> TYPE: RNA
107 <213> ORGANISM: Homo sapiens
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <223> OTHER INFORMATION: HeLa S100
113     antisense sirNA (5'-3')
115 <400> SEQUENCE: 6
116 ucgaaguauu ccgcg                        15
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 21
121 <212> TYPE: RNA
122 <213> ORGANISM: Homo sapiens
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <223> OTHER INFORMATION: HeLa S100
128     antisense sirNA (5'-3')
130 <400> SEQUENCE: 7
131 ucgaaguauu ccgcguacgu g                21
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 25
136 <212> TYPE: RNA
137 <213> ORGANISM: Homo sapiens
140 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:32

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

```

141 <221> NAME/KEY: misc_feature
142 <223> OTHER INFORMATION: HeLa S100
143     antisense sirNA (5'-3')
145 <400> SEQUENCE: 8
146 ucgaaguauu ccgcguacgu gaugu                25
149 <210> SEQ ID NO: 9
150 <211> LENGTH: 27
151 <212> TYPE: RNA
152 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <223> OTHER INFORMATION: HeLa S100
158     antisense sirNA (5'-3')
160 <400> SEQUENCE: 9
161 ucgaaguauu ccgcguacgu gauguuc            27
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 29
166 <212> TYPE: RNA
167 <213> ORGANISM: Homo sapiens
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <223> OTHER INFORMATION: HeLa S100
173     antisense sirNA (5'-3')
175 <400> SEQUENCE: 10
176 ucgaaguauu ccgcguacgu gauguucac          29
179 <210> SEQ ID NO: 11
180 <211> LENGTH: 21
181 <212> TYPE: RNA
182 <213> ORGANISM: Homo sapiens
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <223> OTHER INFORMATION: HeLa S100
188     antisense sirNA (5'-3')
190 <400> SEQUENCE: 11
191 ucgaaguauu ccgcguacgu g                  21
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 21
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
200 <220> FEATURE:
201 <221> NAME/KEY: misc_feature
202 <222> LOCATION: (1)..(21)
203 <223> OTHER INFORMATION: RNA/DNA hybrid
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <223> OTHER INFORMATION: HeLa S100
208     antisense sirNA (5'-3')
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:32

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

```

212 <222> LOCATION: (20)..(20)
213 <223> OTHER INFORMATION: n = 2'-deoxythymidine
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <222> LOCATION: (21)..(21)
218 <223> OTHER INFORMATION: n = 2'-deoxyguanosine
220 <400> SEQUENCE: 12
W--> 221 ucgaaguauu ccgcguacgn n 21
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 21
226 <212> TYPE: RNA
227 <213> ORGANISM: Homo sapiens
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <223> OTHER INFORMATION: HeLa S100
233     antisense siRNA (5'-3')
235 <400> SEQUENCE: 13
236 ucgaaguauu ccgcguacgu u 21
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 21
241 <212> TYPE: DNA
242 <213> ORGANISM: Homo sapiens
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)..(21)
248 <223> OTHER INFORMATION: RNA/DNA hybrid
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <223> OTHER INFORMATION: HeLa S100
253     antisense siRNA (5'-3')
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (20)..(21)
258 <223> OTHER INFORMATION: n = 2'-deoxythymidine
260 <400> SEQUENCE: 14
W--> 261 ucgaaguauu ccgcguacgn n 21
264 <210> SEQ ID NO: 15
265 <211> LENGTH: 21
266 <212> TYPE: RNA
267 <213> ORGANISM: Homo sapiens
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <223> OTHER INFORMATION: HeLa S100
273     antisense siRNA (5'-3')
275 <400> SEQUENCE: 15
276 ucgaaguauu ccgcguacgu g 21
279 <210> SEQ ID NO: 16
280 <211> LENGTH: 21
281 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:32

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

```

282 <213> ORGANISM: Homo sapiens
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (1)..(21)
288 <223> OTHER INFORMATION: RNA/DNA hybrid
290 <220> FEATURE:
291 <221> NAME/KEY: misc_feature
292 <223> OTHER INFORMATION: HeLa S100 cells
293     antisense sirNA (5'-3')
295 <220> FEATURE:
296 <221> NAME/KEY: misc_feature
297 <222> LOCATION: (20)..(20)
298 <223> OTHER INFORMATION: n = 2'-deoxythymidine
300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (21)..(21)
303 <223> OTHER INFORMATION: n = 2'-deoxyguanosine
305 <400> SEQUENCE: 16
W--> 306 ucgaaguauu ccgcguacgn n                                21
309 <210> SEQ ID NO: 17
310 <211> LENGTH: 21
311 <212> TYPE: RNA
312 <213> ORGANISM: Homo sapiens
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <223> OTHER INFORMATION: HeLa S100
318     antisense sirNA (5'-3')
320 <400> SEQUENCE: 17
321 ucgaaguauu ccgcguacgu u                                21
324 <210> SEQ ID NO: 18
325 <211> LENGTH: 21
326 <212> TYPE: DNA
327 <213> ORGANISM: Homo sapiens
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (1)..(21)
333 <223> OTHER INFORMATION: RNA/DNA hybrid
335 <220> FEATURE:
336 <221> NAME/KEY: misc_feature
337 <223> OTHER INFORMATION: HeLa S100
338     antisense sirNA (5'-3')
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (20)..(21)
343 <223> OTHER INFORMATION: n = 2'-deoxythymidine
345 <400> SEQUENCE: 18
W--> 346 ucgaaguauu ccgcguacgn n                                21
349 <210> SEQ ID NO: 19
350 <211> LENGTH: 21

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/520,470

DATE: 01/26/2006
TIME: 11:44:33

Input Set : A:\2923-673.txt
Output Set: N:\CRF4\01262006\J520470.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 20,21
Seq#:14; N Pos. 20,21
Seq#:16; N Pos. 20,21
Seq#:18; N Pos. 20,21
Seq#:22; N Pos. 20,21
Seq#:26; N Pos. 20,21
Seq#:27; N Pos. 1
Seq#:28; N Pos. 1
Seq#:29; N Pos. 1
Seq#:30; N Pos. 1,20,21
Seq#:31; N Pos. 1,20,21
Seq#:32; N Pos. 1,20,21
Seq#:33; N Pos. 1,20,21

VERIFICATION SUMMARY

DATE: 01/26/2006

PATENT APPLICATION: US/10/520,470

TIME: 11:44:33

Input Set : A:\2923-673.txt

Output Set: N:\CRF4\01262006\J520470.raw

L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:3387 M:283 W: Missing Blank Line separator, <220> field identifier